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★ JUN 1 - 1934 ★

U. S. Department of Agriculture

May 1, 1934

UNITED STATES DEPARTMENT OF AGRICULTURE

WEATHER BUREAU

Forecast Division

WASHINGTON

CIRCULAR

DISTRIBUTION OF WEATHER INFORMATION, FORECASTS, AND WARNINGS
BY RADIO FOR THE BENEFIT OF NAVIGATION ON THE GREAT LAKES

Weather forecasts and information for such States as are contiguous to the Great Lakes, and forecasts and warnings for the Great Lakes, are broadcast by radio from a number of broadcasting stations cooperating with the United States Weather Bureau. The broadcasts of weather forecasts, warnings, and other pertinent information have been arranged so as to be of special benefit to navigation, shipping, and aviation interests of the Great Lakes region, and are made daily, except as noted, from stations at important Lake ports. The daily forecasts of wind and weather are made separately for the upper and lower Lakes, and are broadcast accordingly. In the following schedules central standard time (C. S. T.) or eastern standard time (E. S. T.) is used, as indicated:

RADIO BROADCASTING STATIONS AND SCHEDULES

DULUTH, MINN.

Station WEBC.—Head of the Lakes Broadcasting Co.

Radiotelephone. 1,290 kc.

7 a. m., 9:30 a. m., 11:15 a. m., 3:30 p. m., 5:30 p. m., and 12 midnight, C. S. T. (Except Sundays.)

Forecasts for Duluth-Superior and vicinity.

Storm warnings whenever issued.

Station WRL.—Radiomarine Corporation of America.

Radiotelegraph. ACCW; 425 kc.

9 a. m., 4 p. m., and 9:30 p. m., C. S. T.

7 a. m. pressure, wind, and weather at Duluth, Port Arthur, Marquette, and Sault Ste. Marie.

7 a. m. wind and weather at Portage and Whitefish Point.

Pressure extremes, locations of highs and lows.

Forecasts for the upper Lakes.

Storm warnings whenever issued.

GREEN BAY, WIS.

Station WHBY.—WHBY, Incorporated. (West De Pere, Wis.)

Radiotelephone. Wave length 250 meters; 1,200 kc.

9 a. m., 12:15 p. m., and 7:15 p. m., C. S. T. (Except Sundays and holidays.)

Forecasts for Green Bay and Wisconsin.

Forecasts for the upper Lakes.

Storm warnings whenever issued.

MILWAUKEE, WIS.

Station WISN.—American Radio News Corporation.

Radiotelephone. 1,120 kc.

5:45 p. m. and 10:15 p. m., C. S. T. (Except Sundays and holidays.)

Forecasts for Milwaukee and vicinity.

Storm warnings whenever issued.

Station WTMJ.—The Journal Co., (Milwaukee Journal).

Radiotelephone. 620 kc.

11 a. m. and 6 p. m., C. S. T.

MILWAUKEE, WIS.—Continued.

7 a. m. pressure, wind, and weather at Alpena, Chicago, Escanaba, Milwaukee, and Sault Ste. Marie; wind and weather at Mackinaw at 11 a. m.

Forecasts for Milwaukee and vicinity, Wisconsin, and Illinois at 11 a. m.

Forecasts for Milwaukee and Wisconsin at 6 p. m.

Forecasts for Milwaukee and upper Lakes and 9 p. m. wind velocity at Milwaukee at 10:30 p. m.

Storm warnings whenever issued.

CHICAGO, ILL.

Station WAAF.—Drovers Journal Publishing Co.

Radiotelephone. 920 kc.

12:30 and 1:45 p. m., C. S. T. (Except Sundays and holidays.)

Forecasts for Illinois, Indiana, Wisconsin, Minnesota, and Upper and Lower Michigan.

Forecasts for upper and lower Lakes.

General forecast.

Storm warnings whenever issued.

Station WBBM.—WBBM Broadcasting Corporation.

Radiotelephone. 770 kc.

10 a. m., C. S. T.* (Except Sundays and holidays.)

Forecasts for Chicago and vicinity.

Storm warnings whenever issued.

Station WCFL.—Chicago Federation of Labor.

Radiotelephone. 970 kc.

Between 1:30 p. m. and 1:45 p. m., C. S. T.* (Except Saturdays, Sundays, and holidays.)

Forecasts for Chicago and vicinity, Illinois, and Indiana.

Forecasts for upper and lower Lakes.

Storm warnings whenever issued.

Station WGN.—WGN, Incorporated.

Radiotelephone. 720 kc.

10 p. m., C. S. T.*

Forecasts for Chicago and vicinity, Illinois, Indiana, Lower Michigan, Upper Michigan, Wisconsin, and Iowa.

Storm warnings whenever issued.

Station WGO.—Radiomarine Corporation of America.

Radiotelegraph. CW; 454 kc.

9:30 a. m., 4 p. m., and 8:50 p. m., C. S. T.*

7 a. m. and 7 p. m. pressure, wind, and weather at Chicago, Milwaukee, Ludington (a. m. only), Escanaba, and Sault Ste. Marie; and wind and weather at Whitefish Point.

7 a. m. wind and weather at Beaver Island and Mackinaw at 9:30 a. m. only.

Forecasts for Chicago and vicinity.

Forecasts for the upper and lower Lakes.

Storm and small craft warnings whenever issued.

Station WLS.—Agricultural Broadcasting Co.

Radiotelephone. 870 kc.

6:20 a. m., 10:05 a. m., and 11:45 a. m., C. S. T.* (Except 1:30 p. m. only on Sundays.)

Forecasts for Chicago and vicinity, Illinois, Indiana, Wisconsin, Upper and Lower Michigan, Missouri, and Iowa.

Forecasts for upper and lower Lakes.

Storm warnings whenever issued.

Station WJJD.—WJJD, Incorporated.

Radiotelephone. 1,130 kc.

1 p. m., C. S. T.*

*One hour earlier during period of "Daylight Saving Time", April 30 to September 24.

CHICAGO, ILL.—Continued.

Forecasts for Chicago and vicinity.
Forecasts for Illinois and Indiana.
Storm warnings whenever issued.

LUDINGTON, MICH.

Station WKBZ.—Karl L. Ashbacher.
Radiotelephone. 1,500 kc.
10 a. m., 11 a. m., 12:30 p. m., and 8 p. m., E. S. T. (Except Sundays and holidays.)
Forecast for Lower Michigan.
Forecast for Lake Michigan.
Storm warnings.

ROGERS CITY, MICH.

Station WLC.—The Central Radio Telegraph Co.
Radiotelegraph. CW; 454 kc.
10 a. m., E. S. T.
State of weather and wind direction and velocity at Mackinaw, Middle Island, Alpena, Tawas Point, and Harbor Beach; barometric pressure at Alpena.
10 a. m. and 10 p. m., E. S. T.
Weather forecast for upper and lower Lakes; storm and advisory warnings whenever issued.

ALPENA, MICH.

Station WNO.—Michigan Wireless Telegraph Co.
Radiotelegraph. CW; 454 kc.
8:50 a. m., E. S. T.
State of weather, wind direction, and velocity at Mackinaw, Middle Island, Alpena, Tawas Point, and Harbor Beach; barometric pressure at Alpena.
10:20 a. m., E. S. T.
Forecasts for upper and lower Lakes; storm and advisory warnings whenever issued.

DETROIT, MICH.

Station WXYZ.—Kunsky-Trendle Broadcasting Corporation.
Radiotelephone. 1,240 kc.
12 noon and 6 p. m., E. S. T.
Forecasts for Detroit and vicinity, Lower Michigan and Upper Michigan.

Station WJR.—WJR, The Goodwill Station, Inc.
Radiotelephone. 750 kc.
(Approximately 6:40 p. m.), E. S. T., (commercial program schedules permitting).
Forecasts for Detroit and vicinity, Lower Michigan and Upper Michigan.
Storm warnings whenever issued (if time available).

Station WMBC.—Michigan Broadcasting Co.
Radiotelephone. 1,420 kc.
11 a. m., 1:15 p. m., 8:30 p. m., and 9:45 p. m., E. S. T.
Forecasts for Lower Michigan and Detroit and vicinity.

Station WWJ.—Evening News Association, Inc.
Radiotelephone. 920 kc.
11:55 a. m., E. S. T., Monday, Wednesday, and Saturday.
12 noon, E. S. T., Tuesday, Thursday, and Friday.
Forecasts for Detroit and vicinity; Lower Michigan, Upper Michigan, Indiana, and Ohio.
Forecasts for upper and lower Lakes.
Local data.
Summary of weather conditions.
Storm warnings whenever issued.
12 midnight, except Sundays (Sundays, 11 p. m.), E. S. T.
Forecasts for Lower Michigan, Upper Michigan, and Indiana.

*One hour earlier during period of "Daylight Saving Time", April 30 to September 24.

DETROIT, MICH.—Continued.

Station WCV.—Michigan Wireless Telegraph Co. (Wyandotte, Mich.)

Radiotelegraph. 425 kc.

10:20 a. m., E. S. T.

Forecasts for upper and lower Lakes.

Storm warnings whenever issued.

Station W8XE.—Ford Motor Company. (Dearborn, Mich.)

Radiotelephone. 389 kc.

10:30 a. m., E. S. T. (Except Saturday, Sunday, and holidays.)

Forecast for Detroit and vicinity.

Station CKLW.—Essex Broadcasters, Limited.

Radiotelephone. 840 kc.

Between 7 a. m. and 8 a. m., E. S. T.

Forecast for Lower Michigan.

7:30 p. m., E. S. T.

Forecasts for Detroit and vicinity, and local data.

Summary of weather conditions.

Forecasts for upper and lower Lakes.

TOLEDO, OHIO.

Station WSPD.—Toledo Broadcasting Co.

Radiotelephone. 1,340 kc.

8 a. m., 12 noon, 6 p. m., and 11 p. m., E. S. T.

Forecasts for Toledo and vicinity, Ohio, Lower Michigan, and the lower Lakes, and weather notes and conditions, except forecast for Ohio only on Sundays and holidays.

CLEVELAND, OHIO.

Station WCY.—Radiomarine Corporation of America. (West Dover, Ohio.)

Radiotelegraph. ACCW; 454 kc.

12 noon and 10:30 p. m., E. S. T.

8 a. m. and 8 p. m., E. S. T., pressure, wind, and weather at Cleveland, Toledo, Erie, Buffalo, Detroit, Alpena, Sault Ste. Marie, Marquette, Duluth, Port Arthur, Milwaukee, and Chicago.

8 a. m. pressure, wind, and weather at Parry Sound, Escanaba, and Ludington; and wind and weather at Whitefish Point, Beaver Island, and Mackinaw at 12 noon only, E. S. T.

Forecasts for the lower and upper Lakes.

Summary of weather conditions.

Locations of "highs" and "lows".

Storm and advisory warnings for the Great Lakes whenever issued.

Station WTAM.—National Broadcasting Co., Inc.

Radiotelephone. 1,070 kc.

7:29 a. m. and 6:14 p. m., E. S. T. (Sundays, 6:49 p. m. only.)

Forecast for Cleveland and vicinity.

12:47 p. m., E. S. T. (Except Sundays and holidays.)

8 a. m. pressure, wind, and weather at Cleveland, Toledo, Erie, Buffalo, and Detroit.

Forecasts for Cleveland and vicinity, and Ohio.

Forecasts for the lower and upper Lakes.

Summary of weather conditions.

Storm warnings whenever issued.

11:05 p. m., E. S. T.

Forecast for Ohio.

Summary of weather conditions.

Storm warnings whenever issued.

Station WHK.—Radio Air Service Corporation.

Radiotelephone. 1,390 kc.

11:45 a. m., E. S. T.

Forecasts for Cleveland and vicinity, and Ohio.

CLEVELAND, OHIO.—Continued.

Storm warnings whenever issued.

11 p. m., E. S. T.

Forecast for Ohio.

Storm warnings whenever issued.

Station WGAR.—WGAR Broadcasting Co., Inc.

Radiotelephone. 1,450 kc.

7:59 a. m. and 12 noon, E. S. T. (Except Sundays and holidays.)

Forecasts for Cleveland and vicinity.

Storm warnings whenever issued.

12 midnight, E. S. T.

Forecast for Ohio.

Storm warnings whenever issued.

BUFFALO, N. Y.

Station WBL.—Radiomarine Corporation of America.

Radiotelegraph. CW; 425 kc., at 10 a. m., E. S. T.

Radiotelegraph. CW; 454 kc., at 9:50 p. m., E. S. T.

10 a. m. and 9:50 p. m., E. S. T.

8 a. m. and 8 p. m., pressure, wind, and weather at Buffalo, Toronto, Oswego, Erie, Cleveland, Toledo, Detroit, Chicago, Duluth, Sault Ste. Marie, Alpena, and Parry Sound.

Forecasts for the lower Lakes.

Locations of "highs" and "lows".

Storm warnings whenever issued.

Station WGR.—Buffalo Broadcasting Corporation.

Radiotelephone. 550 kc.

12:15 p. m., 5:45 p. m., 7 p. m., and 11 p. m., E. S. T.

Forecasts for Buffalo and western New York.

Forecasts for lower Lakes.

Storm warnings whenever issued.

Station WBEN.—WBEN, Inc.

Radiotelephone. 900 kc.

9:05 a. m., 12:35 p. m., 6:10 p. m., and 11:15 p. m., E. S. T.

Forecasts for Buffalo and western New York.

Forecasts for the lower Lakes.

Storm warnings whenever issued.

Station WKBW.—Buffalo Broadcasting Corporation.

Radiotelephone. 1,480 kc.

12 noon, 5:30 p. m., and 11:15 p. m., E. S. T.

Forecasts for Buffalo and western New York.

Forecasts for lower Lakes.

Storm warnings whenever issued.

ROCHESTER, N. Y.

Station WHAM.—Stromberg Carlson Telephone Manufacturing Co.

Radiotelephone. 1,150 kc.

12 noon, 6 p. m., and 10:30 p. m., E. S. T. (10:30 p. m. only on Sundays and holidays.)

Forecasts for Rochester and vicinity and western New York.

Forecasts for lower Lakes.

Storm warnings whenever issued.

Station WHEC.—WHEC, Inc.

Radiotelephone. 1,430 kc.

12 noon and 6 p. m., E. S. T. (Except Sundays and holidays.)

Forecasts for Rochester and vicinity.

Forecasts for lower Lakes.

Storm warnings whenever issued.

PITTSBURGH, PA.

Station KDKA.—Westinghouse Electric and Mfg., Co.

Radiotelephone. 980 kc.

9:45 a. m., E. S. T. (Except Sundays and holidays.)

Forecasts for western Pennsylvania, Ohio, and West Virginia.

Storm warnings for Great Lakes whenever issued.

6:16 p. m., E. S. T. (Except Sundays and holidays.)

Forecasts for western Pennsylvania, Ohio, and West Virginia.

11:12 p. m., E. S. T.

Forecasts for western Pennsylvania, Ohio, and West Virginia.

Storm warnings for upper and lower Lakes whenever issued.

12:30 p. m., E. S. T.

Storm warnings for Great Lakes whenever issued.

Station WCAE.—WCAE, Inc.

Radiotelephone. 1,220 kc.

1:00 p. m., E. S. T. (Except Sundays and holidays.)

Forecasts for western Pennsylvania, Ohio, and West Virginia.

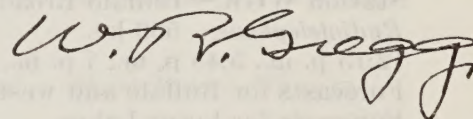
River stages and forecasts.

1 a. m., E. S. T.

Forecasts for western Pennsylvania, West Virginia, and Ohio.

Broadcasts are made throughout the year from the following radio stations: WEBC, WHBY, WISN, WTMJ, WAAF, WBBM, WCFL, WGN, WLS, WJJD, WKBZ, WXYZ, WJR, WMBC, WWJ, W8XE, CKLW, WSPD, WTAM, WHK, WGAR, WGR, WBEN, WKBW, WHAM, WHEC, KDKA, and WCAE.

Storm warnings, weather conditions at certain indicated Lake points, and the forecasts for the upper and lower Lakes are broadcast only during the season of navigation.



Chief of Bureau.

This edition supersedes all other editions of this Circular, dated April 1, 1926, 1927, 1928, and 1929, July 1, 1930, April 1, 1931, April 15, 1932, and April 15, 1933.

Additional copies of this Circular may be procured on application to any Weather Bureau Office at Great Lake ports or to Washington, D. C.

(WB-5-16-34-2,000)

Pyrenostictus

Pyrenostictus, n. sp. (Fig. 1)

Material examined: 1 ♂

Type locality: [illegible]

Pyrenostictus, n. sp. (Fig. 2)

Material examined: 1 ♂

Type locality: [illegible]

Pyrenostictus, n. sp. (Fig. 3)

Material examined: 1 ♂

Type locality: [illegible]

Pyrenostictus, n. sp. (Fig. 4)

Material examined: 1 ♂

Type locality: [illegible]

Pyrenostictus, n. sp. (Fig. 5)

Material examined: 1 ♂

Type locality: [illegible]

Pyrenostictus, n. sp. (Fig. 6)

Material examined: 1 ♂

Type locality: [illegible]

Pyrenostictus, n. sp. (Fig. 7)

Material examined: 1 ♂

Type locality: [illegible]

Pyrenostictus, n. sp. (Fig. 8)

Material examined: 1 ♂

Type locality: [illegible]

Pyrenostictus, n. sp. (Fig. 9)

Material examined: 1 ♂

Type locality: [illegible]

Pyrenostictus, n. sp. (Fig. 10)

Material examined: 1 ♂

Type locality: [illegible]

Pyrenostictus, n. sp. (Fig. 11)

Material examined: 1 ♂

Type locality: [illegible]

Pyrenostictus, n. sp. (Fig. 12)

Material examined: 1 ♂

Type locality: [illegible]